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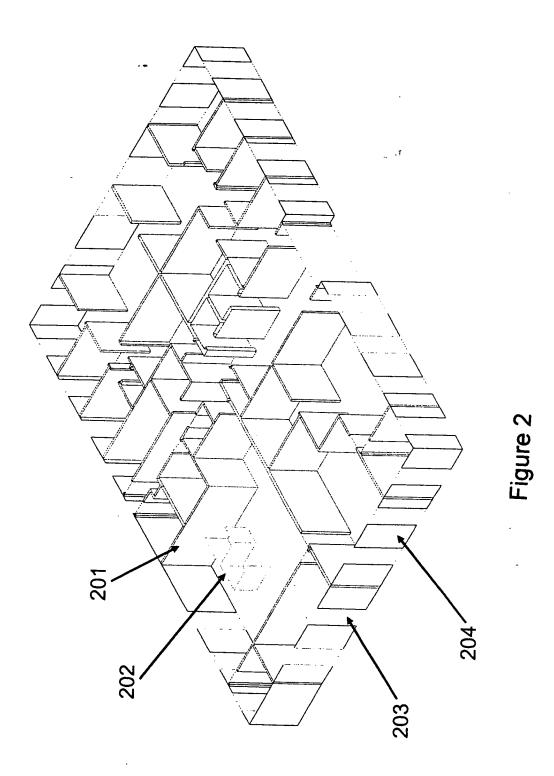
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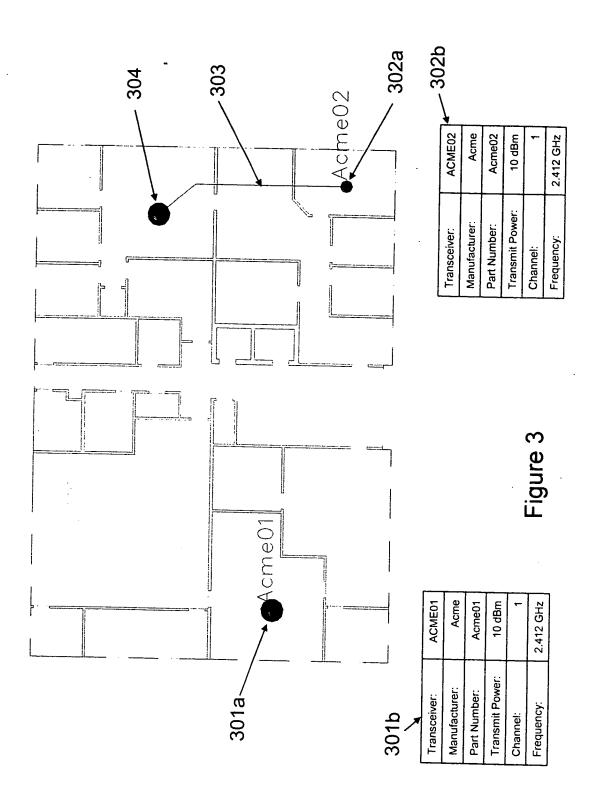
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,	O	
2	Create/Modify site-specific model of environment	
102	Position/Configure communication network equipment and infrastructure within site-specific model	nent and infrastructure within site-specific model
103	Define set of possible network equipment types, co	Define set of possible network equipment types, configurations, and positions to consider in the analysis
104	Predict current communication network performance	95
105	Set desired performance metrics to improve and begin iterative loop	egin iterative loop
106	For each piece of network equipment	
107	For each possible type of equipment	of equipment
108	For each p equipment	For each possible configuration and position for the piece of equipment
109		Update equipment type, configuration, and position
110		Predict communication network performance
111		If new communication network performance is more
		settings, and positions
112	End iterative loop	
113	Report optimal equipment type/configuration/positior performance	Report optimal equipment type/configuration/position combinations that achieve most desirable network performance
114	Update equipment types and/or configurations and/or positions	or positions

Figure '





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lype	Manufacturer	Part #	Description	Loss (dB per 10) meters Connections Disciplinations	Connections	
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A ANTENNA PRINT Aller Telecon	Allen Telecon	ATGASSO	type in canale 2-way power divider	0.30	e .	65.00
10 TO		A134/10	A Lo Unity Gain UMM! Indoor Active Li.	0.00		25 00
✓ CUNNECTUR	E-THON, N Conne		10dB Multifrequency Tap	.050	,	20.00
T CABLE	RFS Cablewave	HCA79.500FD	7/8" Air Dialectric Classics Comment	SS 0		ZU.UU
PAPI F			r versionale remain, compared	0.63	2	15.19
10 K	nro caulewaye	LUFYSSAUFEN	778" FLEXWELL Foam Fire Retardant	0.64	2	919
ראטני.	Lelwave	510929-001	7/8" Flexwell Air Dielectric cable	7.10	0	2.5
TICABLE	Acme	9983-4	Flexblay Air Dielectric	19.00	3 (7.5
ANTENNA POINT Anial	lelu¢.	1 Ph 79ne	300-300 market 60	13.00	7	2.68
ANTENNA DOME		2000	on deg. Hot.	0.00	-	1,00
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A ANTENNA POINT	Antel	1 PD 7905		0.0	_	8.
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KANTENNA POINT	Antel	BCh ghn?	Otavi de de la	0.00		1.00
ZANTENNA DOINT	- T- V	DOD 0001	UMM ID deg. Ver.	0.00	_	1.00
ANTENNA DONT		BCH 80010:270	special shaped pattern	0.00	_	1.00
A AN I ENINA FUIN Swedco	Swedcom Corporati	ALP8009 N20T	80 deg. 9 dB Gain with 20 deg. D/T	0.00	; .	
CANTENNA POINT	Allen Telecom	ASPP2933 1850	~	000	• • •	9 6

Figure 4

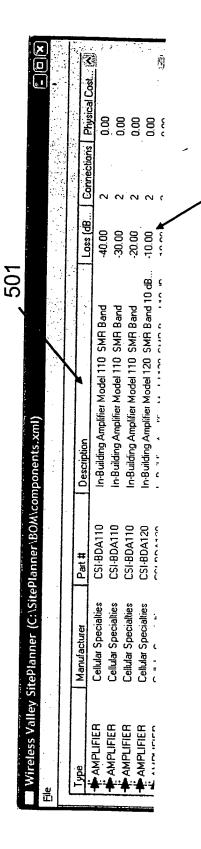


Figure 5

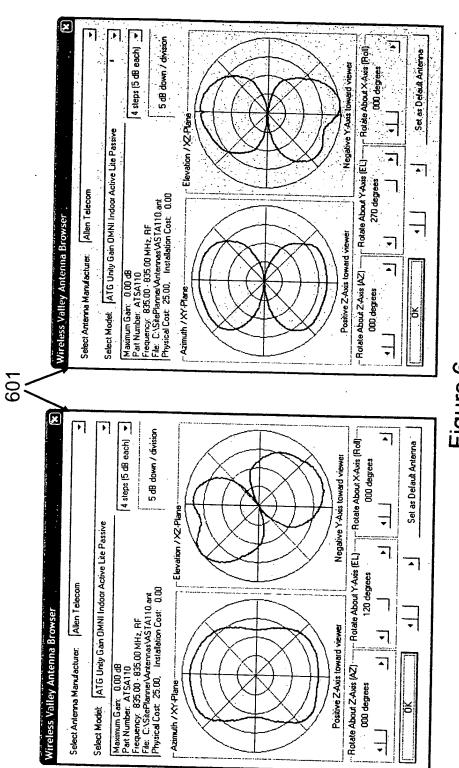
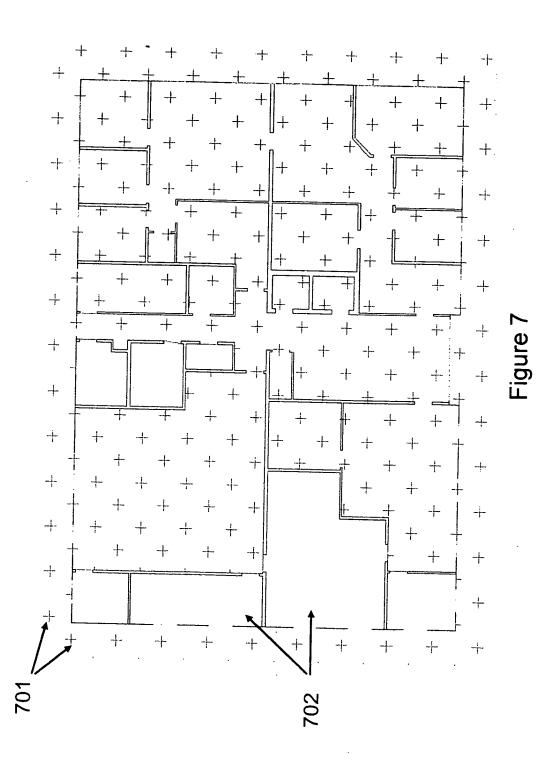
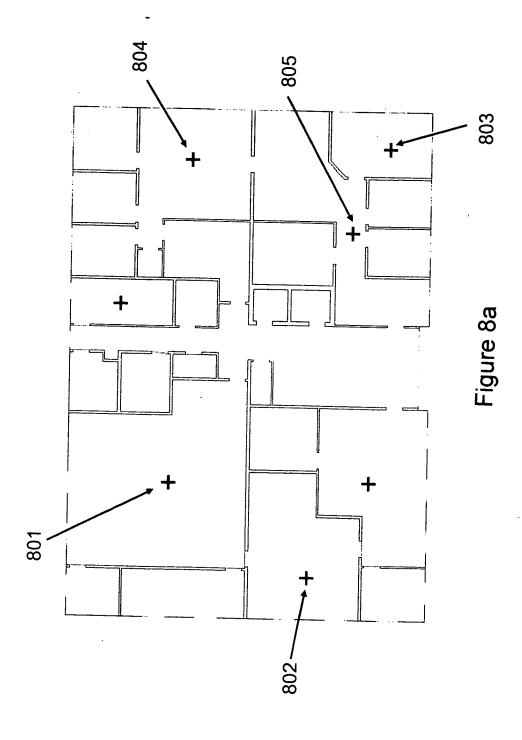


Figure 6





Automated Placement or Configuration of Equipment for Obtaining Desired Network

Performance Objectives . . .

Inventor's Name: Rappaport et al.

Docket No./Application No.: 10/714,929

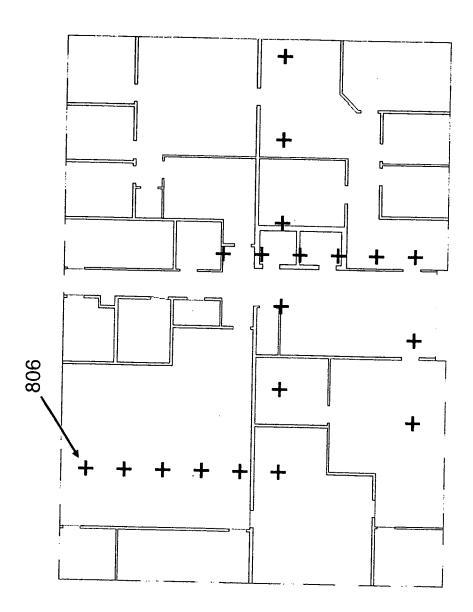
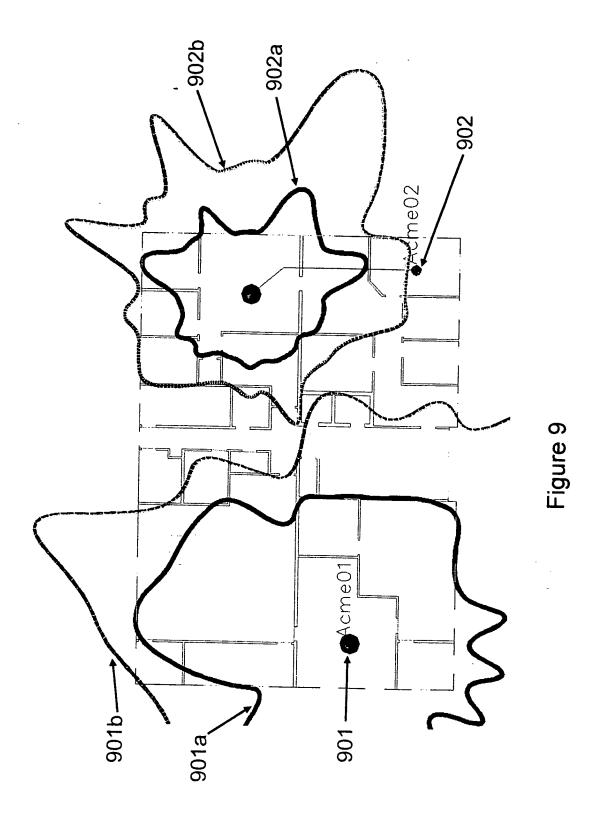
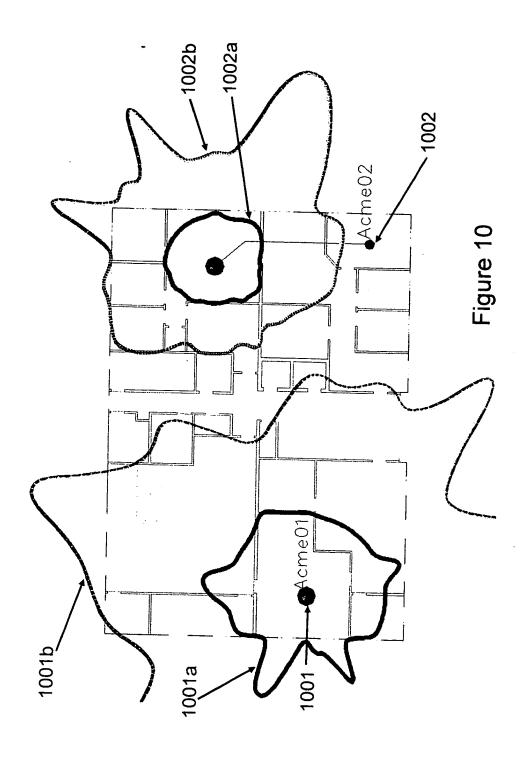


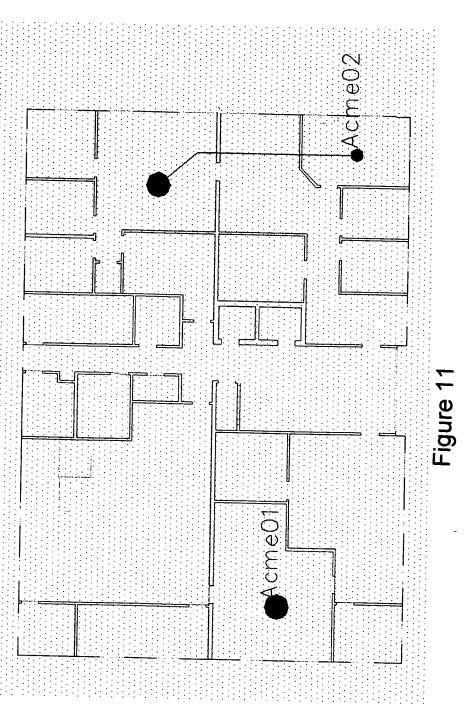
Figure 8b



Automated Placement or Configuration of Equipment for Obtaining Desired Network

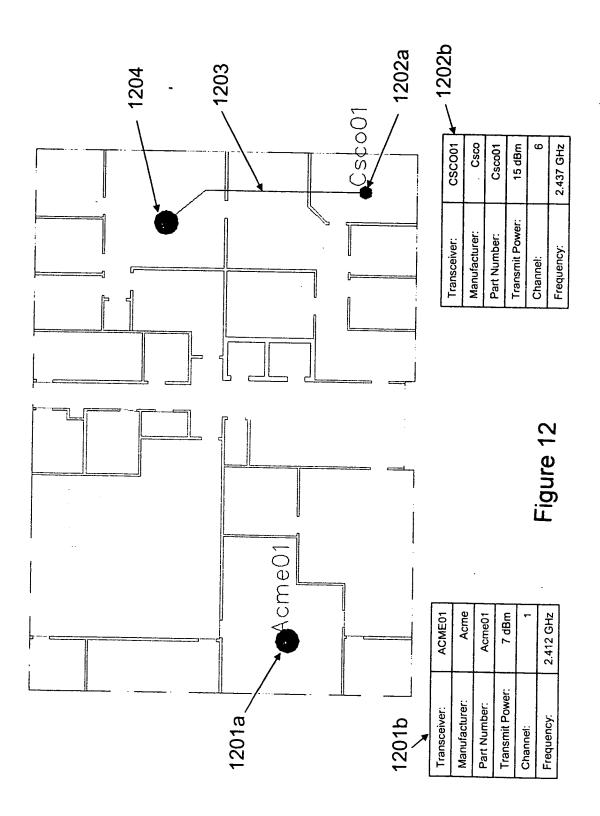
Performance Objectives . . .





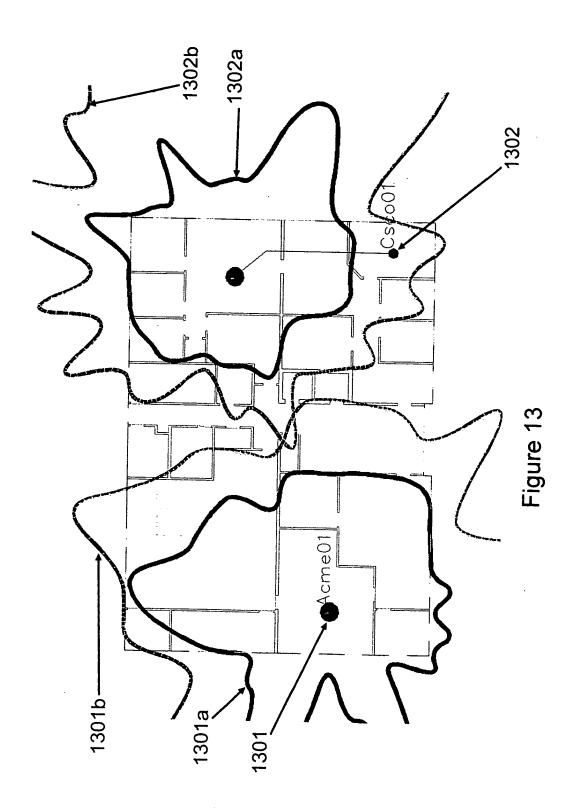
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Performance Objectives . . .



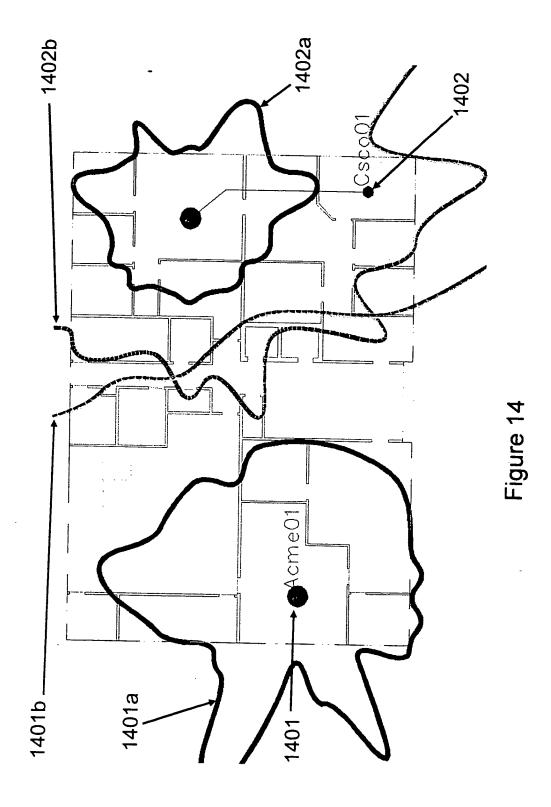
Automated Placement or Configuration of Equipment for Obtaining Desired Network

Performance Objectives . . .

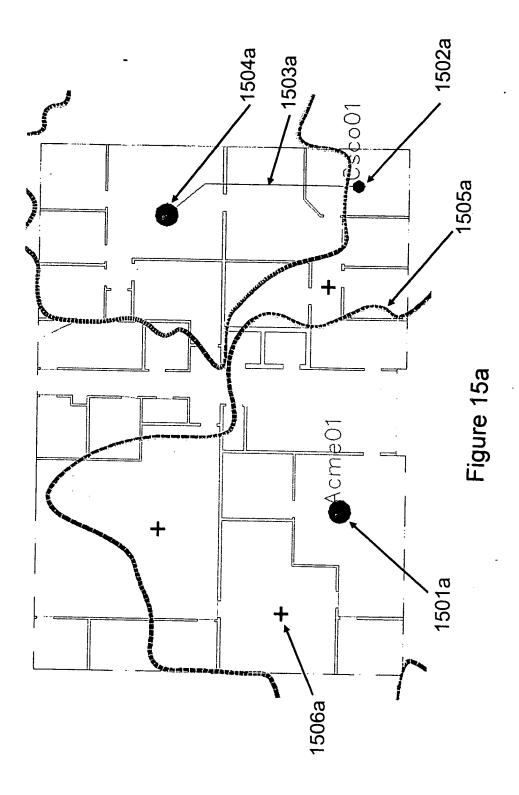


Automated Placement or Configuration of Equipment for Obtaining Desired Network

Performance Objectives . . .



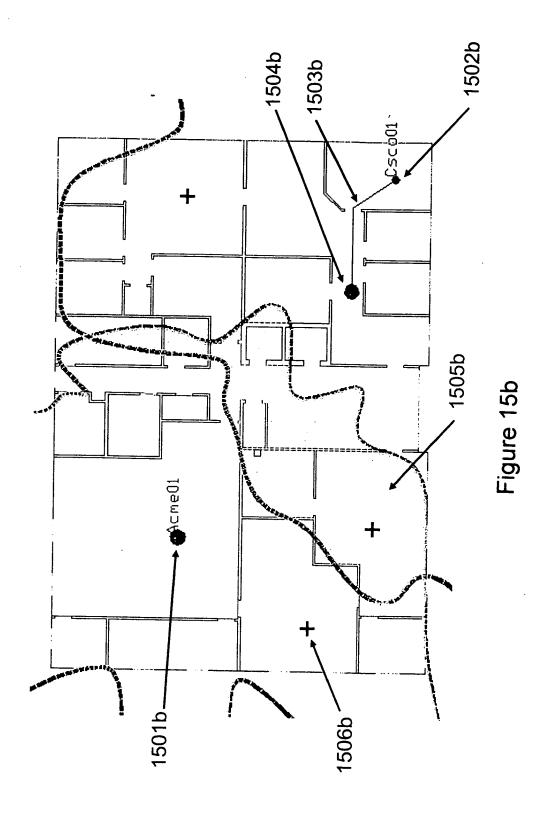
Performance Objectives . . .



Title of the Invention: System and Method for Automated Placement or Configuration of

Equipment for Obtaining Desired Network

Performance Objectives . . .



Automated Placement or Configuration of Equipment for Obtaining Desired Network

Performance Objectives . . .

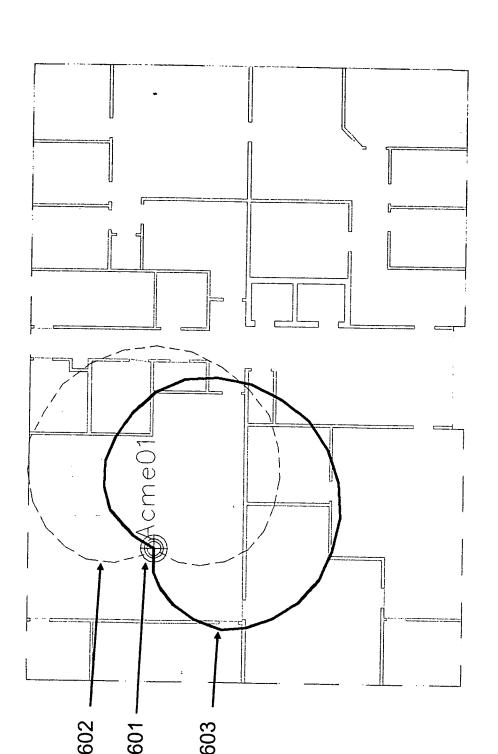


Figure 16

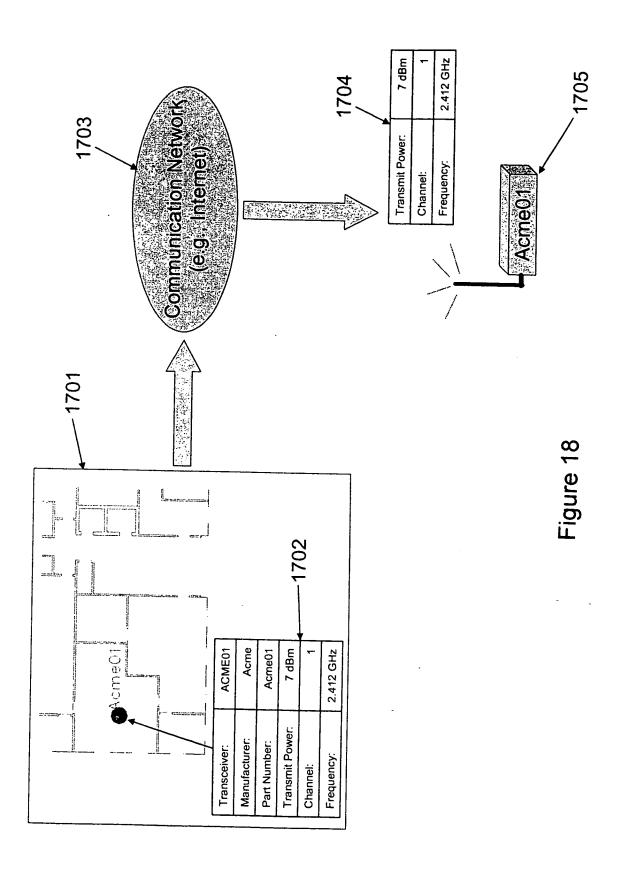
Automated Placement or Configuration of Equipment for Obtaining Desired Network

Performance Objectives . . .

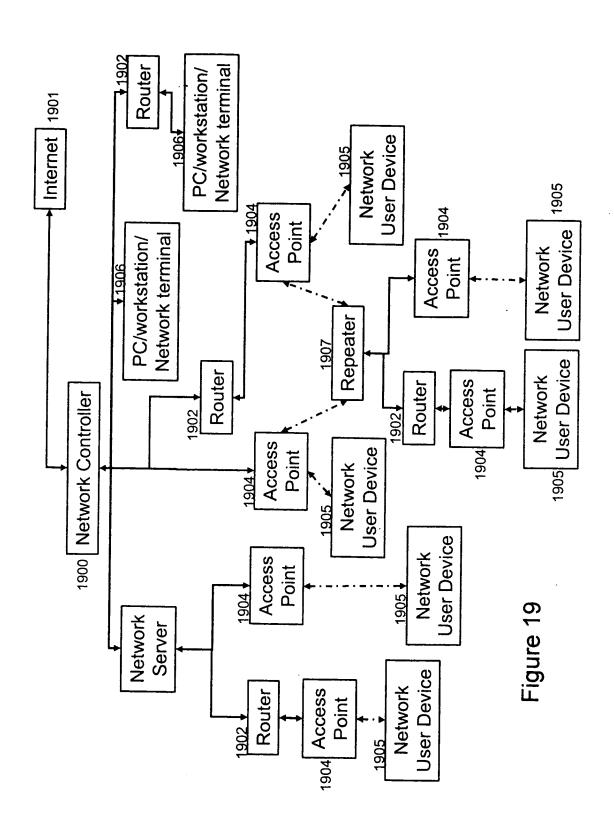
101	Create/Modify site-specific model of environment	
103	Define set of possible network equipment types, configurations, and positions to consider in the analysis	ions to consider in the analysis
105	Set desired performance metrics to improve and begin iterative loop	
106	For each piece of network equipment	-
107	For each possible type of equipment	
108	For each possible configuration and position for the piece of network equipment	and position for the piece of
109	Position, interconne	Position, interconnect, and configure selected equipment
110	Predict communical	Predict communication network performance
111	If new communication desirable than prev	If new communication network performance is more desirable than previous, store current equipment types
	settings, and positions	ins
112	End iterative loop	
113	Report optimal equipment type/configuration/position combinations that achieve most desirable network performance	hieve most desirable network
114	Update equipment types and/or configurations and/or positions	

Figure 1

Performance Objectives . . .

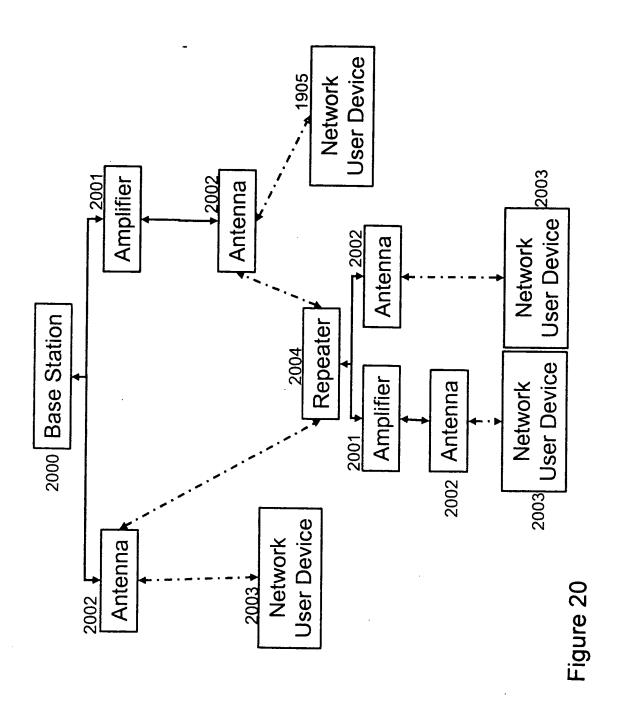


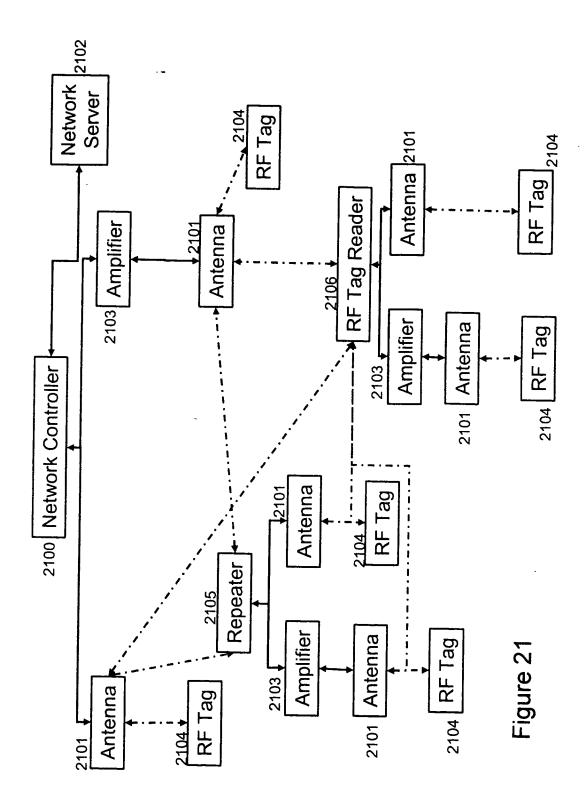
Performance Objectives . . .



Automated Placement or Configuration of

Equipment for Obtaining Desired Network Performance Objectives . . .





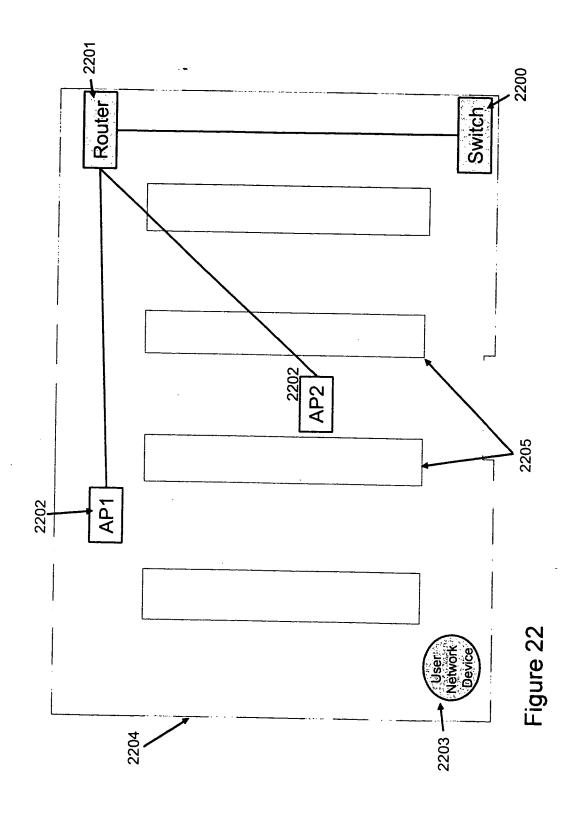
Title of the Invention: System and Method for Automated Placement or Configuration of

Equipment for Obtaining Desired Network Performance Objectives . . .

Inventor's Name:

Rappaport et al.

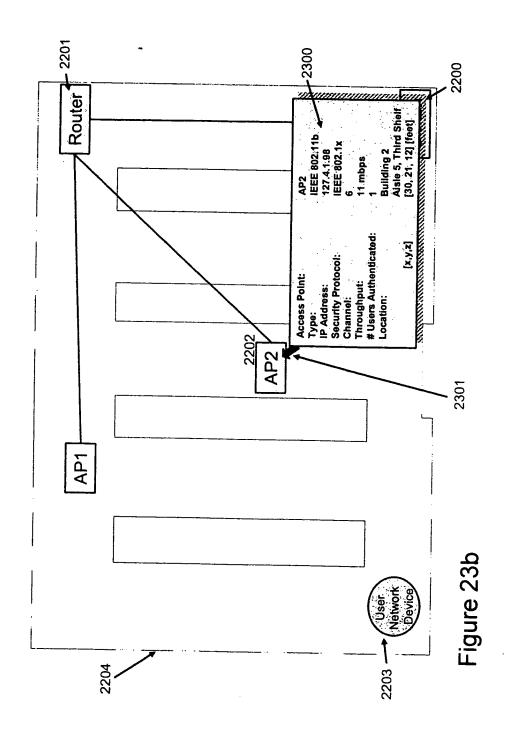
Docket No./Application No.: 10/714,929



F Tag Network Query F Tag Network Query F Identify and display security alerts F Identify and display bandwidth provisioning F Identify and display location F Identify and display product specifications F Manufacturer and part number F Shipping destination and history F Expiration and warranty dates F Quantity in stock F Quantity in stock F Other data fields Configure. F Identify and display equipment diagnostic information F Enable real-time tag query F Enable real-time tag query F F F F F F F F F	Display tag alert messages Frable automated network monitoring Configure	0K Cancel
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Figure 23a

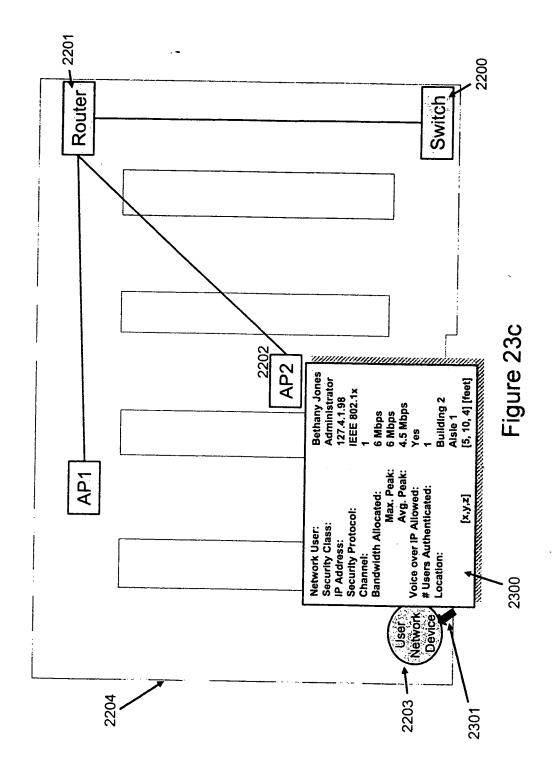
Performance Objectives . . .

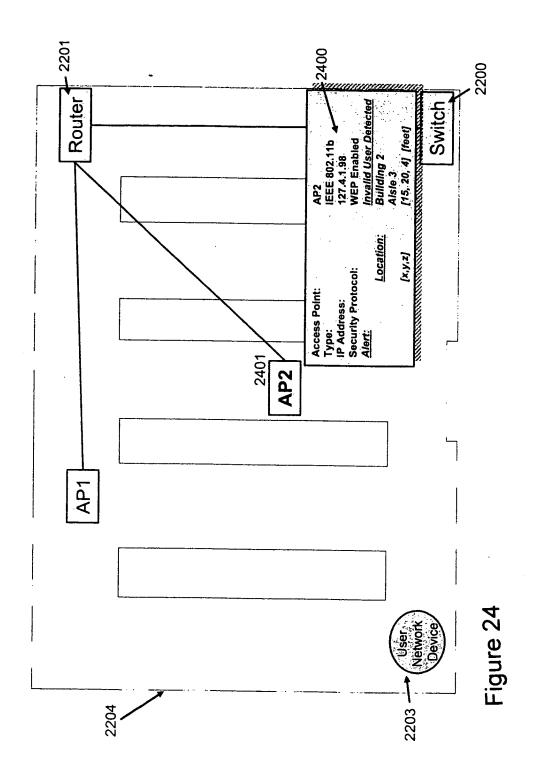


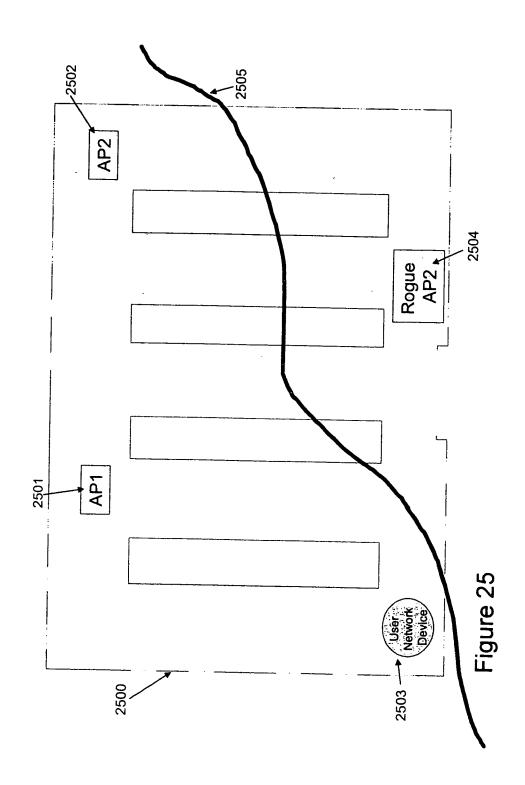
Automated Placement or Configuration of

Equipment for Obtaining Desired Network

Performance Objectives . . .







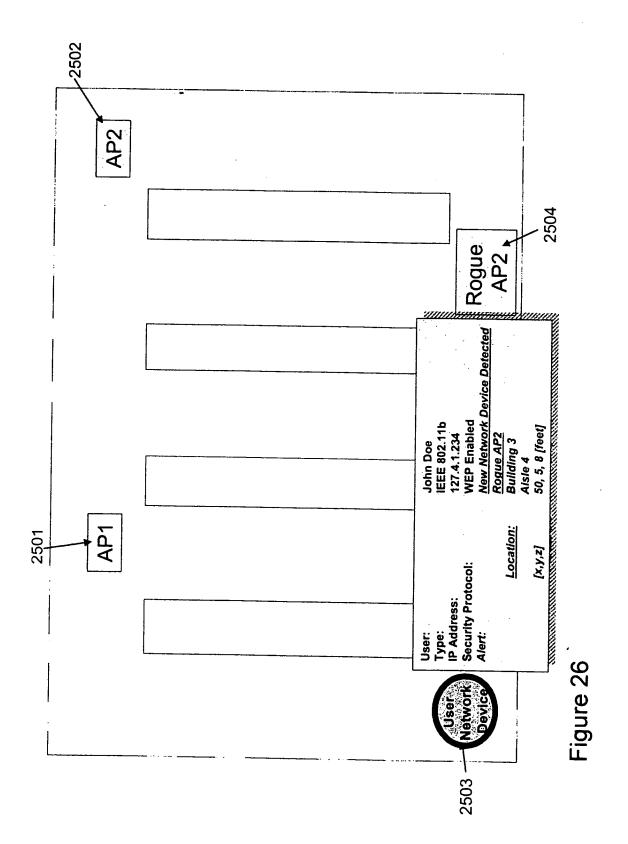
Automated Placement or Configuration of

Equipment for Obtaining Desired Network

Performance Objectives . . .

Inventor's Name:

Rappaport et al. Docket No./Application No.: 10/714,929



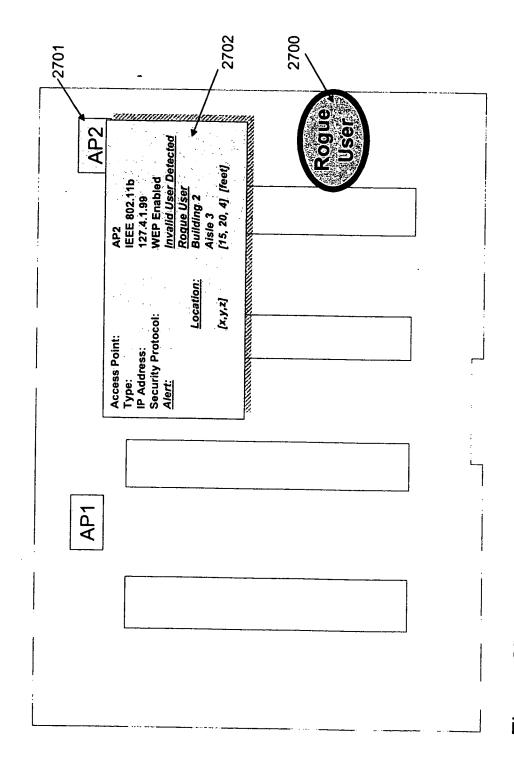
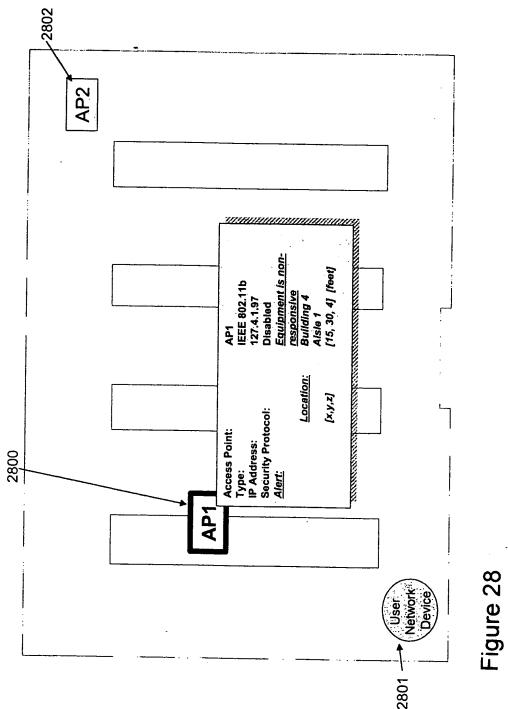
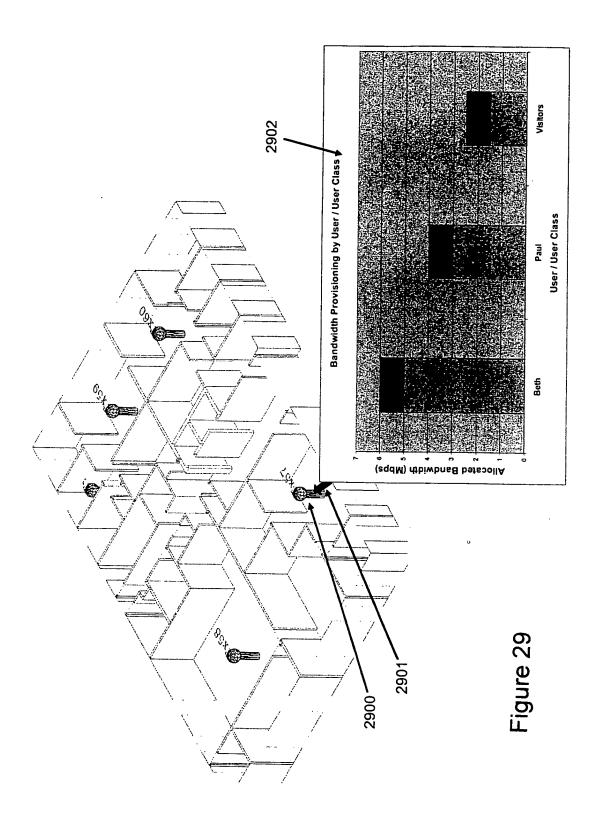
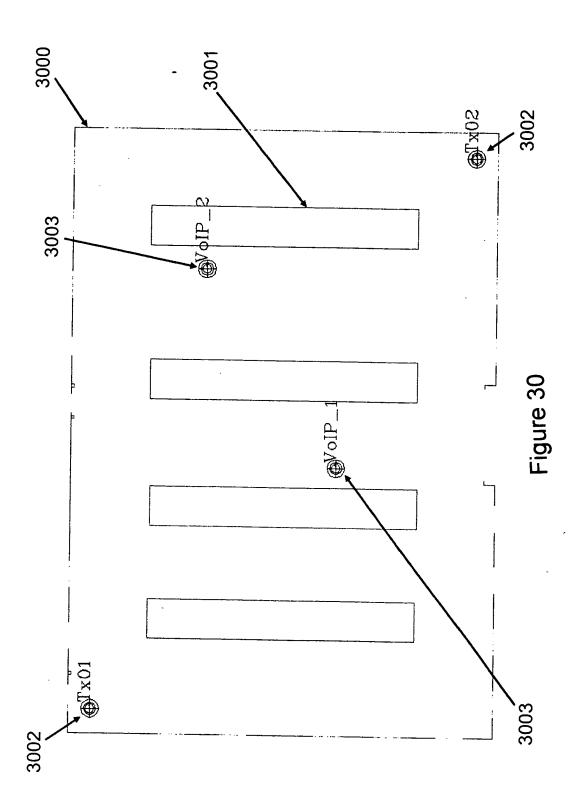


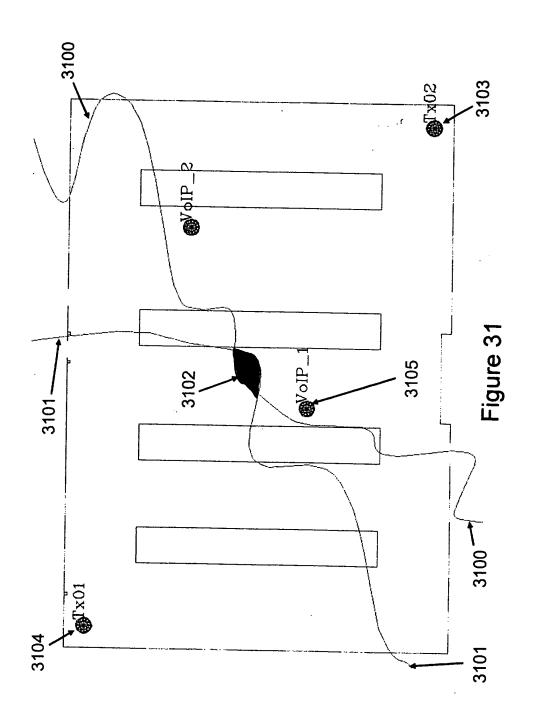
Figure 27

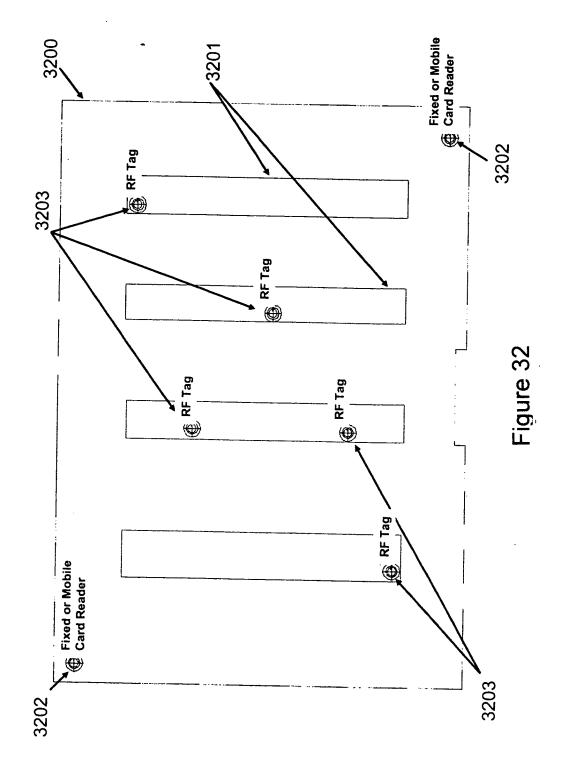


Performance Objectives . . .









Automated Placement or Configuration of Equipment for Obtaining Desired Network

Performance Objectives . . .

